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Patent 1977
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23JAN03 E77/253-1 93617
P01/7700 0100-0301502.1

1/77

Request for grant of a patent

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

THE PATENT OFFICE

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23 JAN 2003

NEWPORT

The Patent Office

Cardiff Road
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NP10 8QQ

1. Your reference

2. Patent application number

(The Patent Office will fill in this part)

0301502.1

23 JAN 2003

3. Full name, address and postcode of the or of each applicant (underline all surnames)

MR MICHAEL TAYLOR
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THUNDERSLEY
ESSEX
SS7 3XF
8415226002

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

4. Title of the invention

MOTORCYCLE WHEEL ROLLER

5. Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Sander Son & Co
34 East Stockwell Street
Colchester
Essex
CO1 1ST
SS7 3XF

Patents ADP number (if you know it)

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number
(if you know it)

Date of filing
(day / month / year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing
(day / month / year)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

a) any applicant named in part 3 is not an inventor, or

b) there is an inventor who is not named as an applicant, or

c) any named applicant is a corporate body.

See note (d))

Patents Form 1/77

9. Enter the number of sheets for any of the following items you are filing with this form. Do not count copies of the same document

Continuation sheets of this form

Description **2**

Claim(s) **1**

Abstract **1**

Drawing(s) **5**

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

Request for preliminary examination and search (Patents Form 9/77)

Request for substantive examination (Patents Form 10/77)

Any other documents (please specify)

11. I/we request the grant of a patent on the basis of this application.

Signature

Date **21/01/03**

12. Name and daytime telephone number of person to contact in the United Kingdom

MR M TAYLOR
01702 552970 . 07968 002529

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Motorcycle Wheel Roller

This invention relates to a Motorcycle Wheel Roller, which includes a series of rollers mounted on a portable frame.

Motorcycles are a popular form of transport used worldwide and range from small scooters to the larger and much heavier sports and touring bikes. Often these larger cycles are only fitted with a side stand.

This creates a problem as cycles built with a side stand only have both wheels constantly on the ground with nearly all of the vehicles weight on the wheels, making it very difficult to rotate the wheels for cleaning, inspection and lubrication of the drive chain system.

The object of this invention is to provide a roller system onto which a motorcycle wheel can be placed to overcome the problem highlighted above.

This invention is of a completely portable design and can be used on any flat surface.

- Fig 1. Shows a perspective view of the invention.
- Fig 2. Shows a plan view.
- Fig 3. Shows an end elevation.
- Fig 4,5. Shows options for roller type.
- Fig 6. Shows a side elevation.
- Fig 7. Shows as Fig 6, with a wheel located on the rollers.
- Fig 8. Shows as Fig 3, with a wheel located on the rollers.

As shown in Fig 1, the frame has a shallow ramp, which is shaped near to the rollers. This enables a wheel to be rolled easily onto the frame and guides the wheel to the centre of the ramp.

Fig 1 also shows a number of roller locating slots in the frame, this allows for the rollers to be moved within the frame, making it suitable for different wheel sizes.

Fig 2 shows the plan view with the roller retainer detailed.

Fig 4,5 highlight the different roller options that may be fitted to the frame, note that all rollers are to be independent to allow for the different rotation rates which may occur when a tyre is in contact with the rollers.

Fig 8 shows the end elevation when a tyre is located within the rollers. This clearly shows the angle of a tyre when used with a motorcycle on a side stand only. The angle of the rollers allow for the tyre to be tilted and remain central within the rollers.

Situated at the base of the frame are rubber support feet, this will prevent the frame from sliding when a motorcycle is pushed onto the ramp.

This invention may also be used for motorcycles fitted with a centre stand when the front wheel remains in contact with the ground in an upright position.

Claim

- 1 A Motorcycle wheel roller that includes a frame that incorporates a series of rollers onto which a motorcycle wheel can be placed and rolled freely.
- 2 A motorcycle wheel roller as claimed in claim 1 with a ramp at either end.
- 3 A motorcycle wheel roller as claimed in claim 1 and 2 with a series of rollers positioned laterally within the frame.
- 4 A motorcycle wheel roller as claimed in claim 3 where the rollers are fully independent of each other and are angled from the outer edge down towards the centre of the frame.
- 5 A motorcycle wheel roller as claimed in any of the preceding claims which has a number of slots within the frame into which the rollers locate which allow for a range of alternative positions and distance between the rollers.
- 6 A motorcycle wheel roller as claimed in any of the preceding claims that have a roller retaining plate to secure the rollers within the frame when positioned.
- 7 A motorcycle wheel roller as claimed in any of the preceding claims that have rubber supports underneath to prevent the frame from slipping on the ground.
- 8 A motorcycle wheel roller as claimed in any of the preceding claims that are made of metal, plastic, nylon, and rubber or any combination of these materials.
- 9 A motorcycle wheel roller substantially as herein described and illustrated in the accompanying drawings.

Abstract

MOTORCYCLE WHEEL ROLLER

A motorcycle wheel roller that includes a rectangular shaped frame with a ramp at either end, incorporating a series of rollers situated laterally across the frame. The rollers are arranged in pairs that taper down towards the centre of the frame to form a shallow v shape.

The tops of the ramps are also shaped to match the roller profile.

There are a series of locating slots on the top of the frame to allow for positioning and movement of the rollers within the frame.

Retaining plates cover the slots and secure the rollers into the frame.

A number of rubber feet are situated at the base of the frame to prevent the frame sliding when in use.

Fig 1 to accompany the abstract.

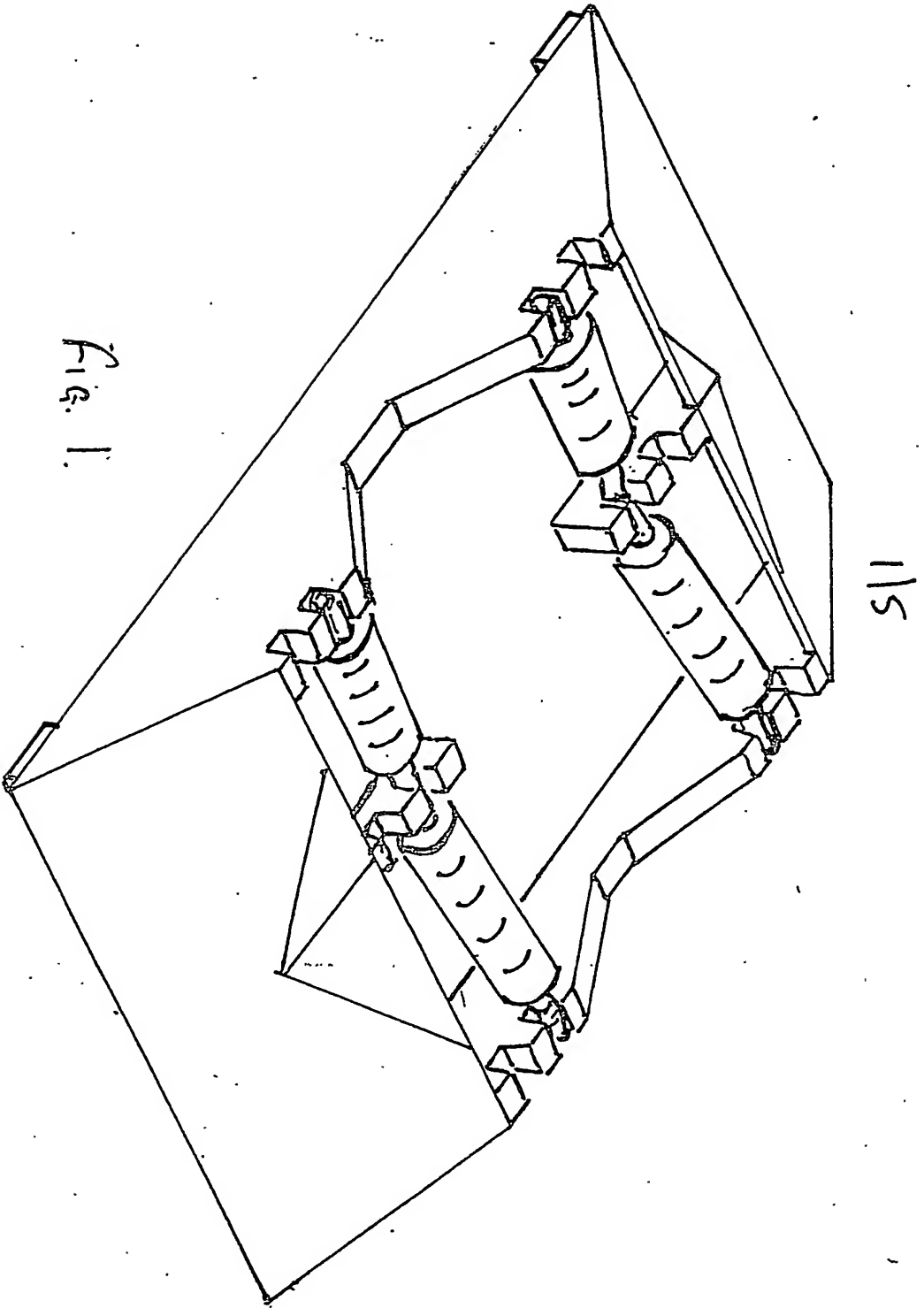


Fig. 1.

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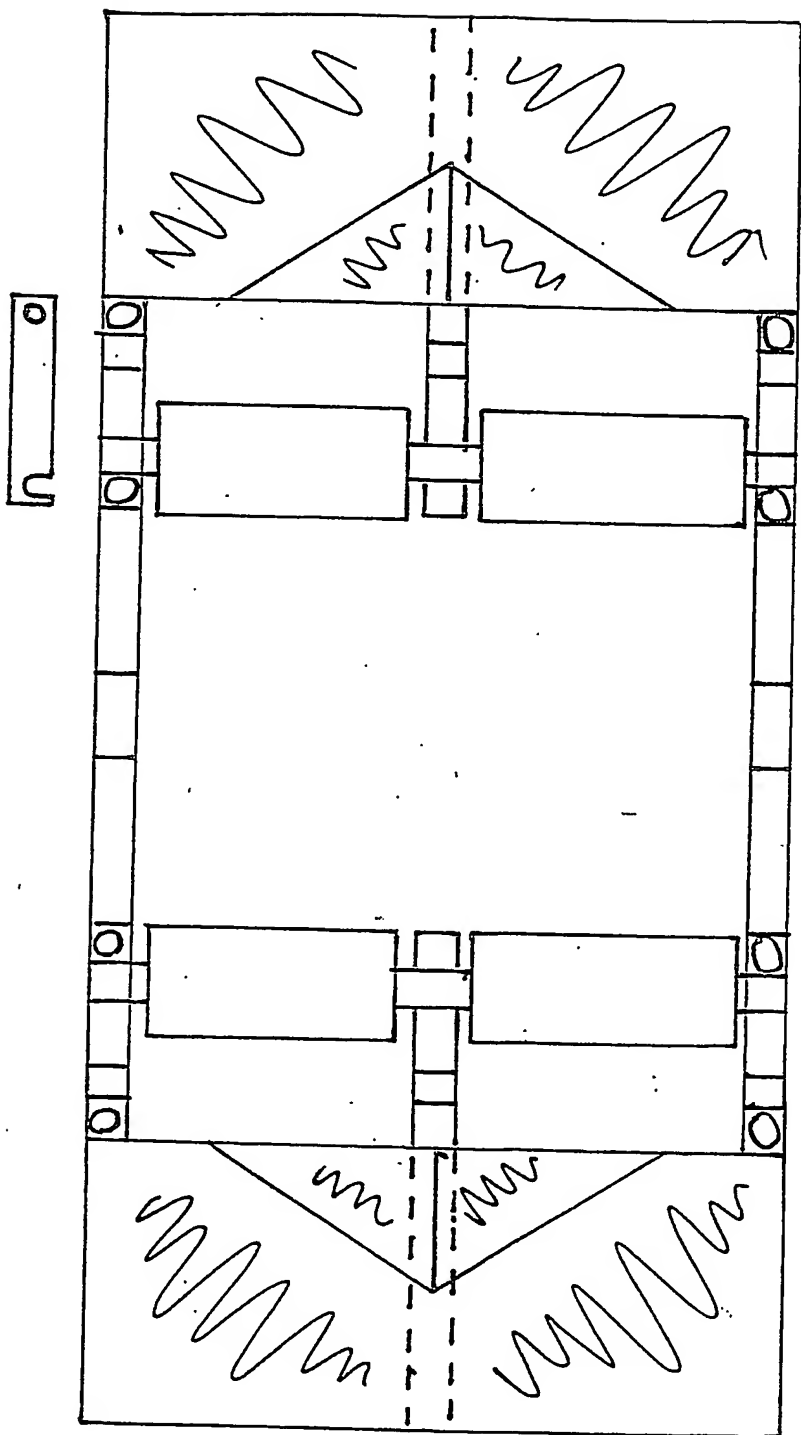


Fig. 2.

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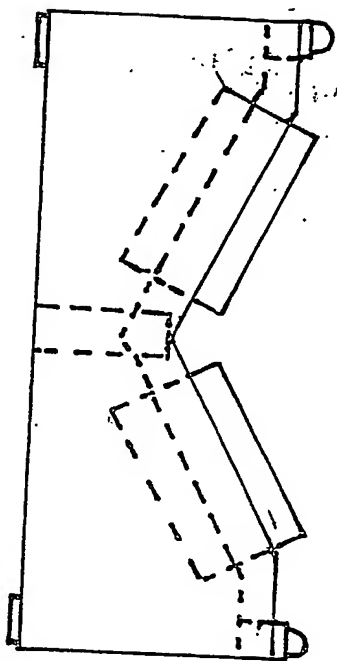


Fig. 3.

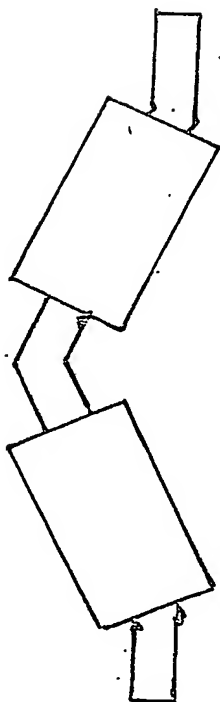


Fig. 4.

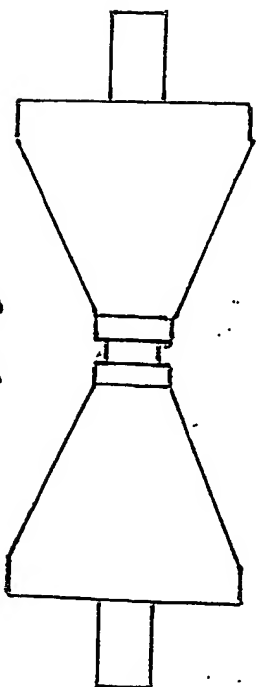


Fig. 5.

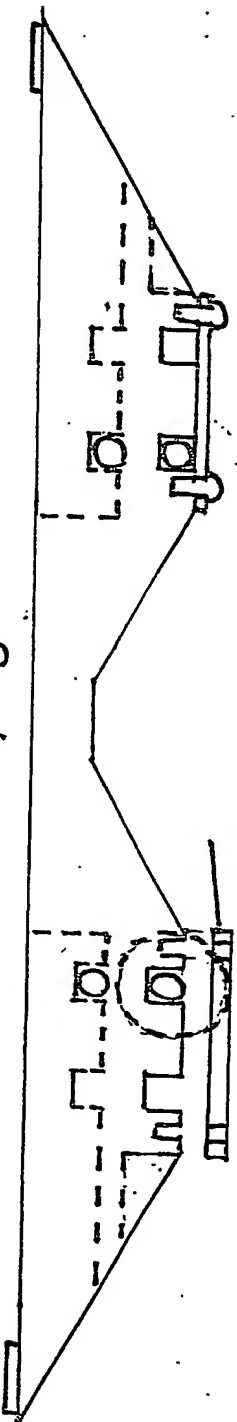


Fig. 6.

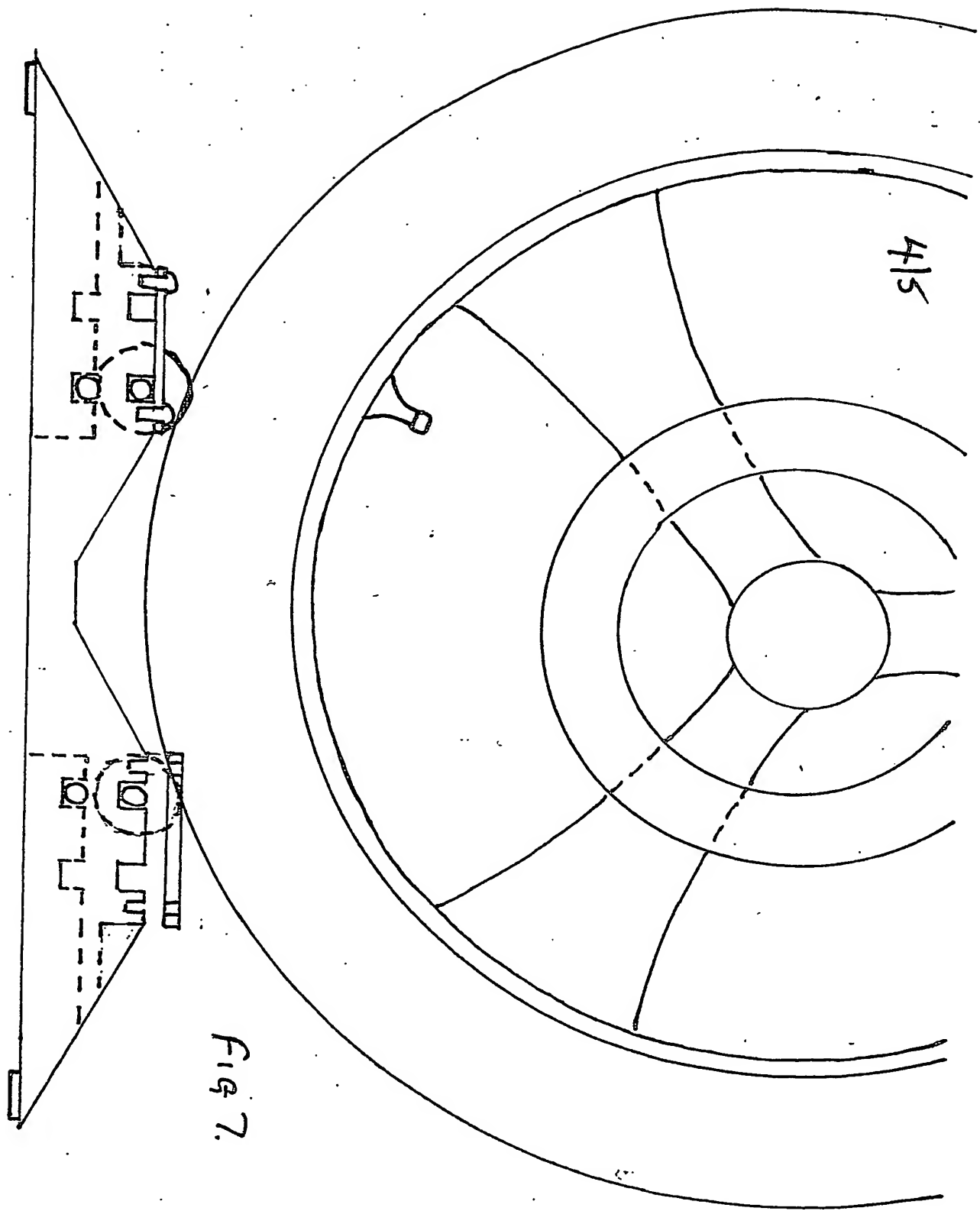


Fig. 7.

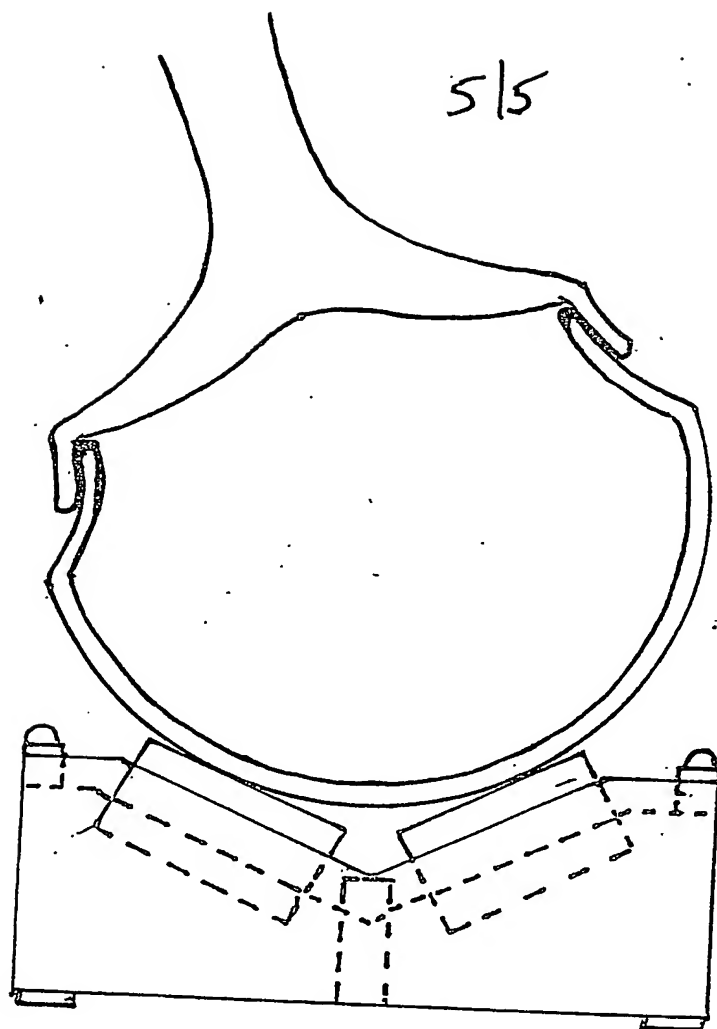


fig 8

PCT Application
PCT/GB2004/000209



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